

*Excellence in Electronics***TYPE
CK6419**

The CK6419 is a filament type pentode of subminiature construction designed for use as a voltage amplifier in portable and wearable equipment. It is similar in characteristics to type CK549DX. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.

MECHANICAL DATA

ENVELOPE: T-1½ X 2 Glass

BASE: None (0.016" tinned flexible leads. Length: 1.5" min.
Spacing: 0.040" center-to-center)

TERMINAL CONNECTIONS: (Red Dot is adjacent to Lead 1)

Lead 1 Plate	Lead 4 Grid #1
Lead 2 Grid #2	Lead 5 Filament, Positive
Lead 3 Filament, Negative	Grid #3 ♦
Grid #3 ♦	

MOUNTING POSITION: Any

ELECTRICAL DATA**RATINGS - ABSOLUTE MAXIMUM VALUES:**

Filament Voltage (dc)	0.625 ± 20% volts
Plate Voltage	25 volts
Grid #2 Voltage	25 volts
Cathode Current	0.1 ma.

CHARACTERISTICS AND TYPICAL OPERATION:

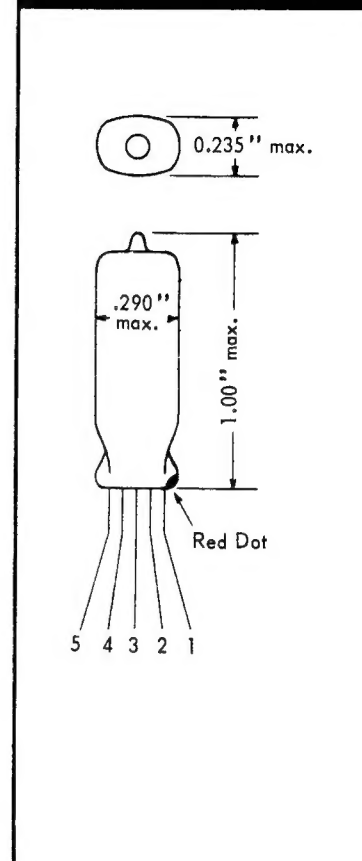
Filament Voltage (dc)	0.625 volts
Filament Current	10 ma.
Plate Voltage	15 volts
Grid #2 Voltage	15 volts
Grid #1 Voltage	-0.625 volts
Plate Current	55 µa.
Grid #2 Current	20 µa.
Transconductance	100 µmhos
Plate Resistance (approx.)	2 meg.

CHARACTERISTICS AND TYPICAL OPERATION - RESISTANCE COUPLED CLASS A1 AMPLIFIER:

Filament Voltage (dc)	0.625 volts
Filament Current	10 ma.
Plate and Grid #2 Supply Voltage	15 volts
Grid #1 Voltage	-0.625 volts
Load Resistance	2.2 meg.
Grid #2 Resistor	3.3 meg.
Grid #1 Resistor	10 meg.
Plate Current	4.6 µa.
Grid #2 Current	2.0 µa.
Transconductance	17 µmhos
Plate Resistance (approx.)	12 meg.
Average Voltage Gain ▲	27

▲ Measured with a signal of 0.05 volts (RMS) and a coupled load impedance of 10 megohms.

♦ Grid #3 is composed of two deflector plates, one being connected to lead 3 and the other to lead 5.



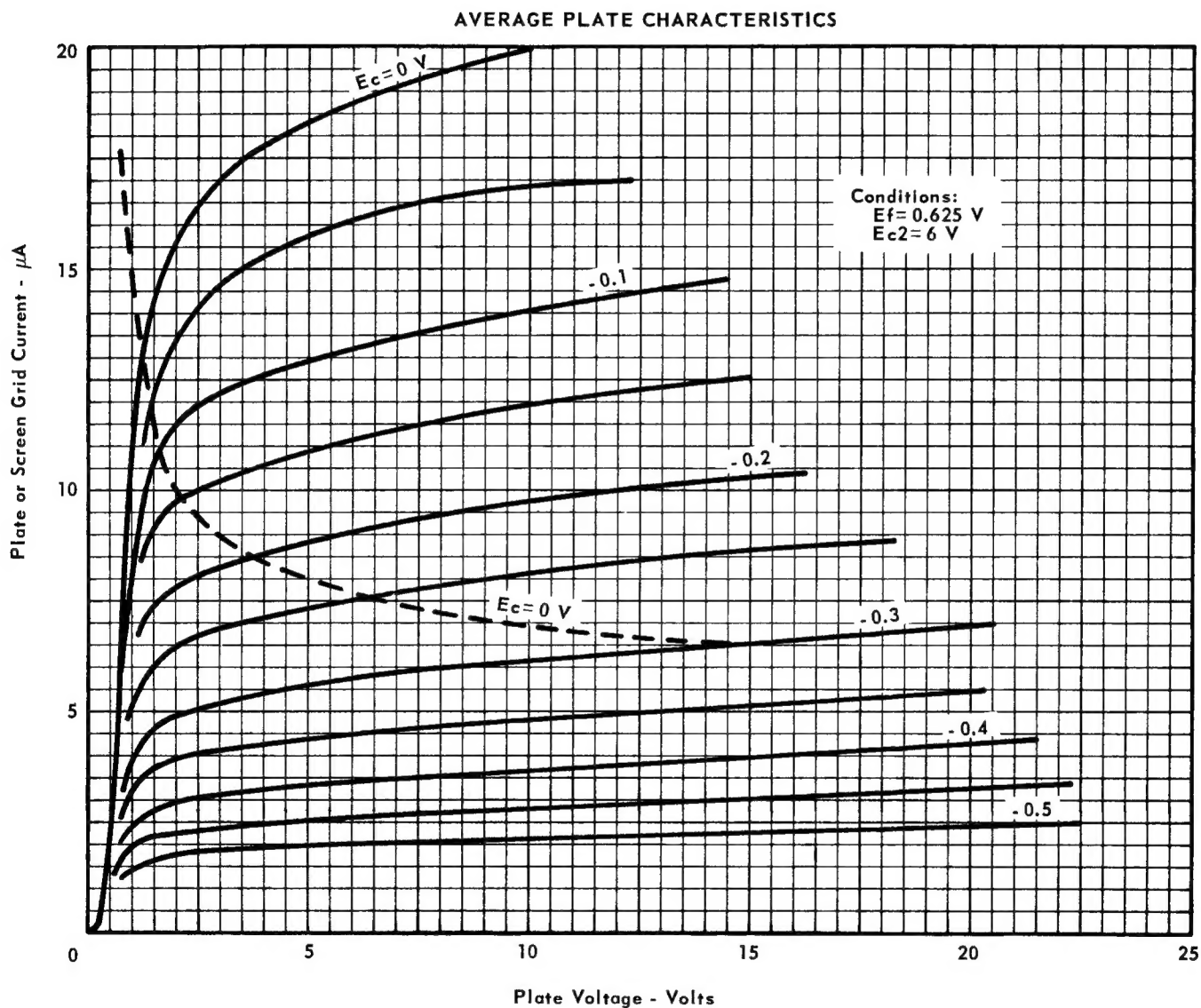
Tentative Data

RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS

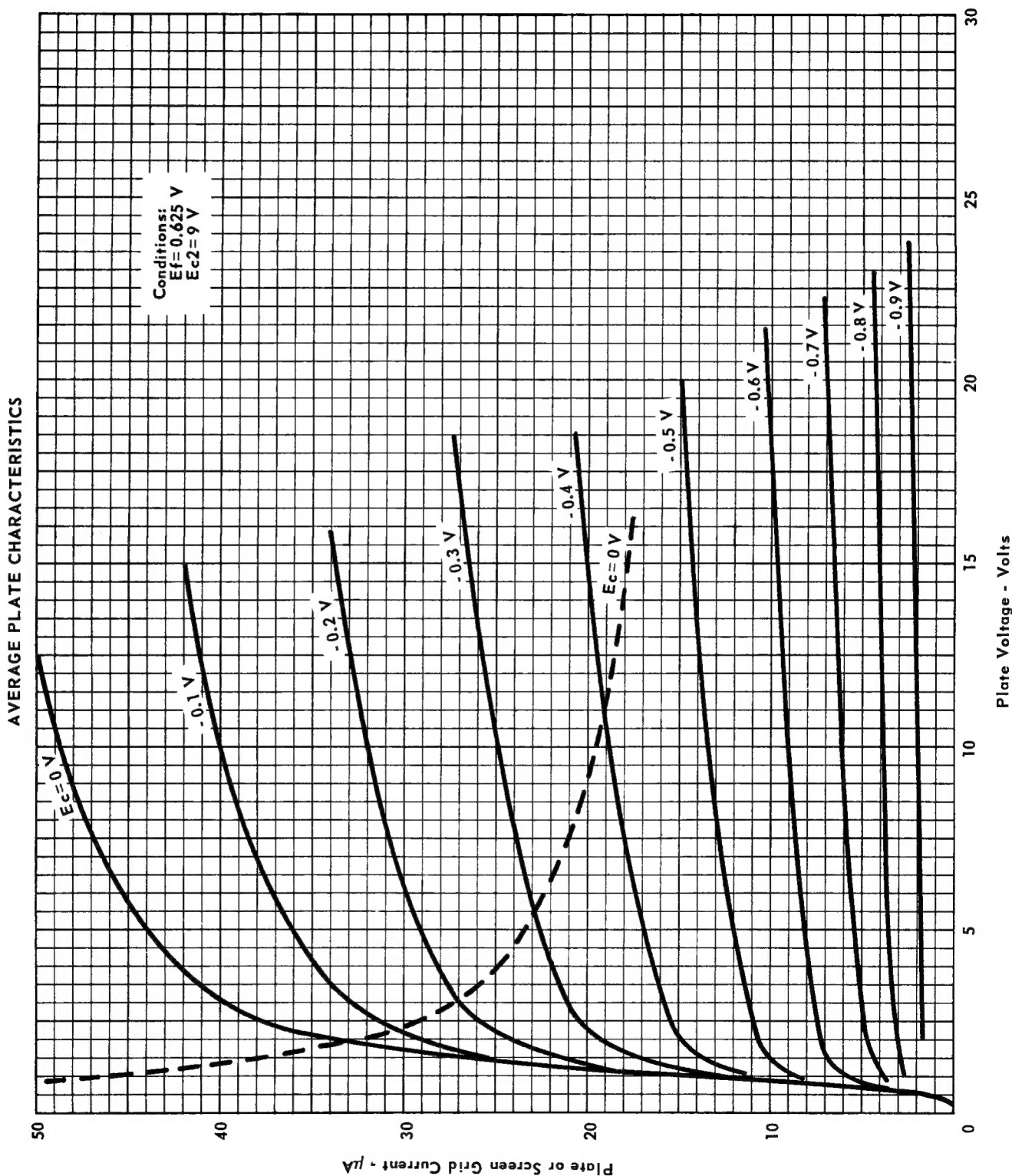


SUBMINIATURE PENTODE



RAYTHEON MANUFACTURING COMPANY
RECEIVING AND CATHODE RAY TUBE OPERATIONS

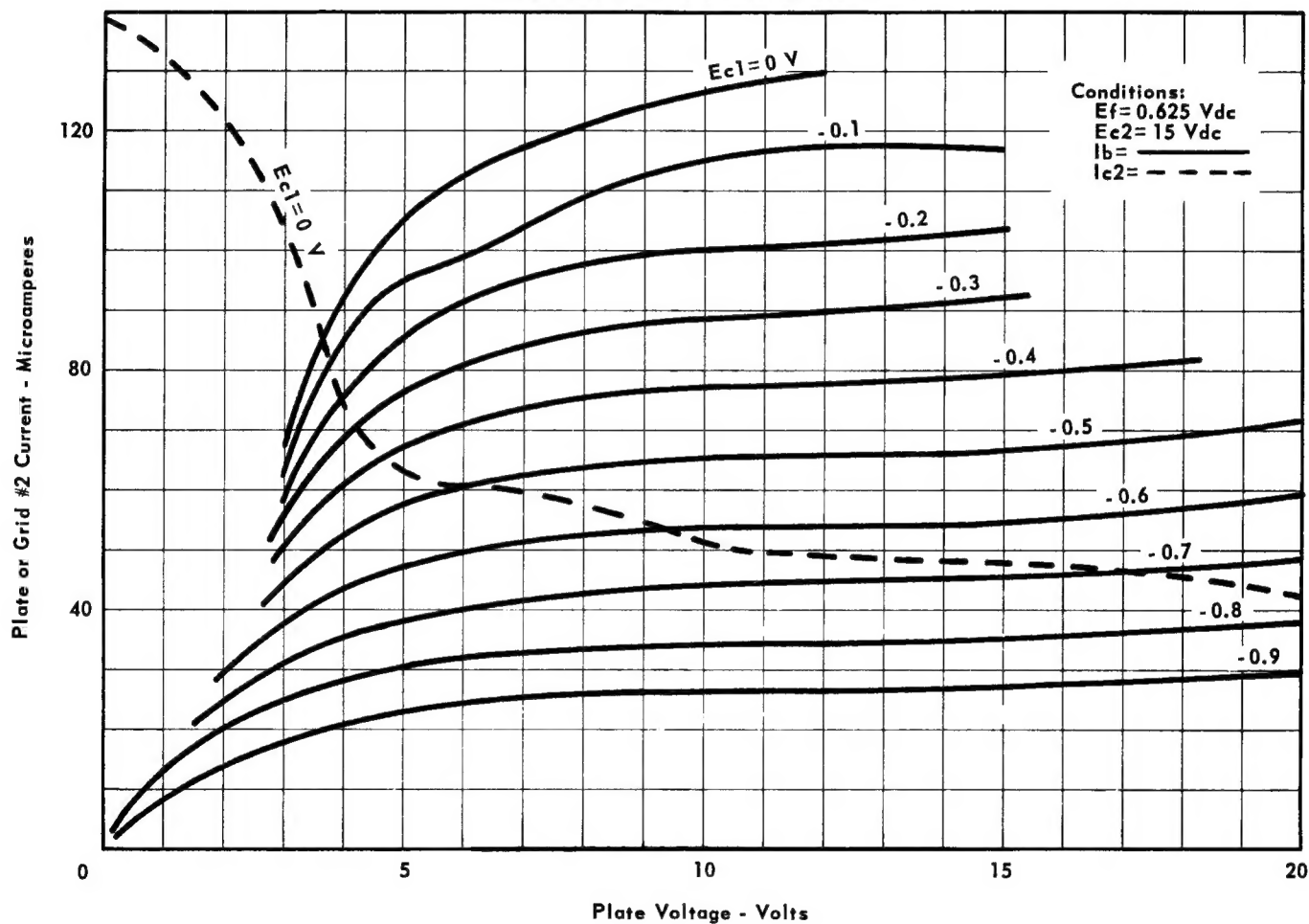
SUBMINIATURE PENTODE





SUBMINIATURE PENTODE

AVERAGE PLATE CHARACTERISTICS



RAYTHEON MANUFACTURING COMPANY
RECEIVING AND CATHODE RAY TUBE OPERATIONS

SUBMINIATURE PENTODE

AVERAGE PLATE CHARACTERISTICS
(Triode Connected)

